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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/700,640	12/29/2000	Akira Yamauchi	S004-4144 (PC	5955
75	590 01/08/2003			
Adams & Wilks			EXAMINER	
50 Broadway 3			WAKS, JOSEPH	
New York, NY	10004			
			ART UNIT	PAPER NUMBER
			2834	•
		DATE MAILED: 01/08/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	09/700,640	YAMAUCHI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Joseph Waks	2834				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1) Responsive to communication(s) filed on 13 November 2002.						
2a)⊠ This action is FINAL . 2b)⊡ Th	2a)⊠ This action is FINAL . 2b)□ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>12-20</u> is/are allowed.						
6)⊠ Claim(s) <u>1-11</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)⊠ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to th						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 Notice of Informa	ary (PTO-413) Paper No(s) I Patent Application (PTO-152)				

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DETAILED ACTION

Specification

1. The amendment filed on November 13, 2002 is objected to under 35 U.S.C. 132 because it introduces new matter into the disclosure. 35 U.S.C. 132 states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows: the predetermined axial position, no axial position offset or drop, i.e. axial displacement and the metal thin plate constitutes means for preventing the axial position offset as amended in paragraph in page 9, the effect to prevent axial position offset or axial displacement as amended in paragraph in page 10, a predetermined axial position, and the effect to prevent axial position offset or axial displacement as amended in paragraph in page 11.

Applicant is required to cancel the new matter in the reply to this Office Action.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 3. Claims 1-11 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The positional offset preventing means for preventing axial positional offset is a new matter not supported by the original disclosure.

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Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Uyema et al. (US 5,739,609) in view of Brunet (FR 2 614 375).

Uyema et al. Disclose a magnetic bearing apparatus comprising a rotor shaft 2, radial magnetic bearings 6 and 7, thrust magnetic bearings 5, and touchdown bearings 8, 9 supported by a retainer member 1. However, Uyema et al. do not disclose the corrugated plate-shaped damper disposed in an annular gap between the touchdown bearings and the retainer.

Brunet discloses a magnetic bearing apparatus having a corrugated plate-shaped damper 44 disposed in an annular gap between the touchdown bearing 3 and the retainer 1 having positional offset preventing means (i.e. friction fit with the retainer) for the purpose of reducing the potential damages to the rotor and the landing bearing during over-speed conditions.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to design the magnetic bearing apparatus as taught by **Uyema et al.** And to provide the corrugated plate-shaped damper disposed in an annular gap between the touchdown bearings and the retainer as taught by **Brunet** for the purpose of reducing the potential damages to the rotor and the landing bearing located at the shaft end during over-speed conditions.

Allowable Subject Matter

6. Claims 12-20 are allowed.

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The feature of the pair of roller bearings disposed between the thrust bearing and the rotor shaft and the pair of corrugated damper members disposed in the annular gap between the roller bearing outer races and the inner circumferential surface of the retainer, in combination with the other limitations present, are neither disclosed nor taught by the prior art of record.

Response to Arguments

7. Applicant's arguments filed on November 13, 2002 have been fully considered but they are not persuasive. Applicant relies in his arguments on features, like means for preventing axial positional offset of the corrugated plate-shaped damper, that are not disclosed in original presentation.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Communication

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Waks whose telephone number is (703) 308-1676. The examiner can normally be reached on Monday through Thursday 8 am to 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor R Ramirez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-1341 for regular communications and (703) 305-1341 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

JOSÉPH WAKS (PRIMARY PATENT EXAMINER TC-2800

JW

January 2, 2003